

FILEID**MAKLOG

L 9

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LL	IIIIII	SSSSSSSS
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LLLLLLLL	IIIIII	SSSSSSSS
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```
1 0001 0 MODULE MAKLOG (
2 0002 0   LANGUAGE (BLISS32),
3 0003 0   IDENT = 'V04-000'
4 0004 0   ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 ****
9 0009 1 *
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27 0027 1 *
28 0028 1 *
29 0029 1 ****
30 0030 1 ++
31 0031 1 +
32 0032 1 +
33 0033 1 FACILITY: MOUNT Utility Structure Levels 1 & 2
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 These routines allocate and hook up the logical name and mounted
38 0038 1 volume list entries.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1 STARLET operating system, including privileged system services
43 0043 1 and internal exec routines.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 20-Oct-1977 19:30
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V03-018 HH0041 Hai Huang 24-Jul-1984
53 0053 1 Remove REQUIRE 'LIBDS:[VMSLIB.OBJ]MOUNTMSG.B32'.
54 0054 1
55 0055 1 V03-017 HH0040 Hai Huang 20-Jul-1984
56 0056 1 Cal EXE$CRE_GTABLE to create the logical name table if
57 0057 1 it doesn't already exist.
```

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112 0112 1
113 0113 1
114 0114 1

V03-016 HH0038 Hai Huang 12-Jul-1984
Correct MOUNT_FLAGS structure attribute.

V03-015 MHB0153 Mark Bramhall 27-Apr-1984
Correct NSASB_ARG_FLAG setting for multiple audits enabled.

V03-014 ACG0423 Andrew C. Goldstein, 24-Apr-1984 11:06
Make disk logical names in MOUNT exec mode to make them
available to privileged programs.

V03-013 HH0012 Hai Huang 09-Apr-1984
Get the device owner UIC and the volume protection
from the ORB instead of the UCB.

V03-012 HH0009 Hai Huang 27-Mar-1984
Add security auditing support.

V03-011 HH0007 Hai Huang 21-Mar-1984
Add cluster-wide group-volume support, i.e., create the
group logical name in the group table of the current
process.

V03-010 HH0002 Hai Huang 23-Jan-1984
Add job-wide mount support.

V03-009 ROW0254 Ralph O. Weber 12-NOV-1983
Cause logical names defined herein to be of the GETDVI
FULLDEVNAM form. This will result in allocation class names
being used for the equivalence name strings of logical names
defined by mount. Therefore, the mounted volume logical name
equivalence strings can be held over time and passed around
the VAXcluster without becoming stale.

V03-008 CDS0001 Christian D. Saether 2-Aug-1983
Remove references to RVX structure (obsolete).

V03-007 DMW4057 DMWlp 23-Jun-1983
Change \$xxLNM value parameters to be by reference

V03-006 DMW4050 DMWlp 15-Jun-1983
Corrections to DMW4033, added LNMSM_TERMINAL
Change over to LNMS_LNMB_ADDR

V03-005 ADE9004 A.ELDRIDGE 29-May-1983
Fixed name binding to logical name tables.

V03-004 DMW4033 DMWlp 26-May-1983
Integrate new logical name structures.

V03-003 STJ50311 Steven T. Jeffreys, 10-Feb-1982
- Make all uses of PHYS_NAME indexed by DEVICE_INDEX,
- but always use PHYS_NAME[0] for tape mounts.
- Set the access mode of the logical name(s) created
to be the MIN (PSLSC_SUPER,.CALLERS_ACMOD). (SPR 45688)

V03-002 DMW4010 DMWlp 19-Nov-1982

115 0115 1 Rework logical name block to MTL (or UCB) links.
116 0116 1
117 0117 1
118 0118 1 V03-001 STJ0248 Steven T. Jeffreys, 31-Mar-1982
- Allow for ASCII "A" characters in a volume name.
119 0119 1
120 0120 1 V02-006 STJ0205 Steven T. Jeffreys, 07-Feb-1982
Create a local copy of the user specified logical name
121 0121 1 to prevent it from being stepped on.
122 0122 1
123 0123 1
124 0124 1 V02-005 LMP0006 L. Mark Pilant, 29-Dec-1981 12:00
125 0125 1 Interlock the mount list to avoid potential disasters.
126 0126 1
127 0127 1 V02-004 ACG0219 Andrew C. Goldstein, 23-Oct-1981 10:48
128 0128 1 Add concealed device support in MOUNT
129 0129 1
130 0130 1 V02-003 STJ0122 Steven T. Jeffreys, 10-Sep-1981
131 0131 1 Fixed references to the logical name descriptor to use
132 0132 1 the symbolic offsets. This ensures that references to
133 0133 1 the logical name length will be WORD context.
134 0134 1
135 0135 1 V02-002 ACG0167 Andrew C. Goldstein, 18-Apr-1980 13:38
136 0136 1 Previous revision history moved to MOUNT.REV
137 0137 1 **
138 0138 1
139 0139 1
140 0140 1 LIBRARY 'SYSS\$LIBRARY:LIB.L32';
141 0141 1 REQUIRE 'SRC\$:MOUDEF.B32';
142 0673 1
143 0674 1
144 0675 1 LITERAL
145 0676 1 PHYS_LENGTH = 15; ! longest allowable physical name
146 0677 1
147 0678 1 FORWARD ROUTINE
148 0679 1 LABEL_LENGTH; ! return the length of a volume label

```
150      0680 1 GLOBAL ROUTINE ALLOC_LOGNAME (MODE) : NOVALUE =
151      0681 1
152      0682 1 ++
153      0683 1
154      0684 1 FUNCTIONAL DESCRIPTION:
155      0685 1
156      0686 1 This routine allocates the mounted volume list entry from the
157      0687 1 appropriate storage pools. It used to allocate logical name block
158      0688 1 also ( thus the name ).
159      0689 1
160      0690 1
161      0691 1 CALLING SEQUENCE:
162      0692 1     ALLOC_LOGNAME ()
163      0693 1
164      0694 1 INPUT PARAMETERS:
165      0695 1     MODE: 0 to use user-specified logical name
166      0696 1           1 to force use of volume name
167      0697 1
168      0698 1 IMPLICIT INPUTS:
169      0699 1     MOUNT parser database
170      0700 1
171      0701 1 OUTPUT PARAMETERS:
172      0702 1     NONE
173      0703 1
174      0704 1 IMPLICIT OUTPUTS:
175      0705 1     MTL_ENTRY: address of MTL block
176      0706 1
177      0707 1 ROUTINE VALUE:
178      0708 1     NONE
179      0709 1
180      0710 1 SIDE EFFECTS:
181      0711 1     NONE
182      0712 1
183      0713 1 --
184      0714 1
185      0715 2 BEGIN
186      0716 2
187      0717 2 EXTERNAL
188      0718 2     MOUNT_OPTIONS : BITVECTOR,      ! command options
189      0719 2     MTL_ENTRY      : REF BBLOCK;    ! MTL block
190      0720 2
191      0721 2 EXTERNAL ROUTINE
192      0722 2     ALLOCATE_MEM;           ! allocate dynamic memory
193      0723 2
194      0724 2
195      0725 2 ! Now allocate the mounted volume list entry
196      0726 2 ! Note: to support job-wide mount, a mount list entry
197      0727 2 ! is always allocated from paged pool.
198      0728 2
199      0729 2     MTL_ENTRY = ALLOCATE_MEM (MTL$C_LENGTH, 1);
200      0730 2
201      0731 2     MTL_ENTRY[MTL$B_TYPE] = DYN$C_MTL;
202      0732 2
203      0733 1 END;                      ! end of routine ALLOC_LOGNAME
```

.TITLE MAKLOG

```
.IDENT  \V04-000\  
.EXTRN  MOUNT_OPTIONS, MTL_ENTRY  
.EXTRN  ALLOCATE_MEM  
.PSECT   $CODE$,NOWRT,2  
  
0000G  CF      0000 00000  .ENTRY  ALLOC_LOGNAME, Save nothing : 0680  
0000G  CF      01  DD 00002  PUSHL  #1  0729  
          00004  18  DD 00006  PUSHL  #24  
          0000B  50  DD 00008  CALLS  #2, ALLOCATE_MEM  
          00010  19  90 00010  MOVL   R0, MTL_ENTRY  
          00014  04  00014  MOVB   #25, 107R0)  0731  
          : 0733  
  
0A  AO
```

; Routine Size: 21 bytes, Routine Base: \$CODE\$ + 0000

```
0734 1 GLOBAL ROUTINE ENTER_LOGNAME (UCB, VCB) : NOVALUE =
0735 1
0736 1 |++
0737 1 | FUNCTIONAL DESCRIPTION:
0738 1 | This routine completes the logical name and mounted volume list
0739 1 | entries. It builds MTL entry and creates the logical name
0740 1 | and hooks up the MTL entry in the appropriate list.
0741 1
0742 1
0743 1
0744 1
0745 1 | CALLING SEQUENCE:
0746 1 | ENTER_LOGNAME (ARG1, ARG2)
0747 1
0748 1 | INPUT PARAMETERS:
0749 1 | ARG1: UCB of volume being mounted
0750 1 | ARG2: VCB of volume being mounted
0751 1
0752 1 | IMPLICIT INPUTS:
0753 1 | MOUNT parser data base
0754 1 | MTL_ENTRY: address of MTL block
0755 1 | SMTL_ENTRY: address of MTL block for volume set
0756 1
0757 1 | OUTPUT PARAMETERS:
0758 1 | NONE
0759 1
0760 1 | IMPLICIT OUTPUTS:
0761 1 | NONE
0762 1
0763 1 | ROUTINE VALUE:
0764 1 | NONE
0765 1
0766 1 | SIDE EFFECTS:
0767 1 | logical name and MTL entry entered
0768 1
0769 1 |--
0770 1
0771 2 BEGIN
0772 2
0773 2 MAP
0774 2 | UCB : REF BBLOCK, | UCB being mounted
0775 2 | VCB : REF BBLOCK; | VCB being mounted
0776 2
0777 2 BUILTIN
0778 2 | INSQUE,
0779 2 | CALLG;
0780 2
0781 2 BIND
0782 2 | TAPE_PREFIX = UPLIT BYTE ( 'TAPES' ),
0783 2 | DISK_PREFIX = UPLIT BYTE ( 'DISK$' );
0784 2 | SYSTEM_TABLE = %ASCID 'LNMS$SYSTEM',
0785 2 | JOB_TABLE = %ASCID 'LNMS$JOB';
0786 2
0787 2 LOCAL
0788 2 | ACMODE,
0789 2 | INDEX,
0790 2 | P, | access mode
0791 2 | | local index into PHYS_NAME vector
0792 2 | | string pointer
```

```

: 262      0791 2      C,
: 263      0792 2      RVT
: 264      0793 2      NAME_DESC : REF BBLOCK,      string count
: 265      0794 2      : BBLOCK [DSC$K_S_BLN], pointer to RVT
: 266      0795 2      LOG_BUFFER : VECTOR [LNMSC_NAMLENGTH, BYTE], internal logical name descriptor
: 267      0796 2      MOUNT_LIST : REF BBLOCK,      logical name buffer
: 268      0797 2      ITEM_LIST : VECTOR [(6*3)+1, LONG], address of mount list tail
: 269      0798 2      : VECTOR [SCRELNM item list, 6 items each
: 270      0799 2      3 longwords in lenght plus 1
: 271      0800 2      for the terminator longword
: 272      0801 2      PHYSNAM_DESC : BBLOCK [ DSC$K_S_BLN ], GETDVI descriptor for physical name
: 273      0802 2      FULLNAM   : VECTOR [ PHYS_LENGTH + 2, BYTE ], Place to store the FULLDEVNAM string
: 274      0803 2      DVI_ITEM  : VECTOR [ 3+1, LONG ], GETDVI item list
: 275      0804 2      JIB
: 276      0805 2      TABLE_NAME : REF BBLOCK,      pointer to Job Info Block
: 277      0806 2      : VECTOR [16, BYTE]
: 278      0807 2      INITIAL (%ASCII 'LNMS$GROUP 000000'), Group table name
: 279      0808 2      GROUP_TABLE : VECTOR [2, LONG]
: 280      0809 2      INITIAL (16, TABLE_NAME), Group table name descriptor
: 281      0810 2      ASC_GROUP : VECTOR [8, BYTE]
: 282      0811 2      INITIAL (%ASCII '00000000'), Group in ASCII (6 bytes used)
: 283      0812 2      ASC_GROUP_DESC : VECTOR [2, LONG]
: 284      0813 2      INITIAL (6, ASC_GROUP); ! ASCII group descriptor
: 285      0814 2
: 286      0815 2
: 287      0816 2
: 288      0817 2
: 289      0818 2
: 290      0819 2
: 291      0820 2
: 292      0821 2
: 293      0822 2      EXTERNAL
: 294      0823 2      MOUNT_OPTIONS : BITVECTOR,      command options
: 295      0824 2      MOUNT_FLAGS : VECTOR,      mount flags
: 296      0825 2      CALLERS_ACMOD : LONG,      Caller's (of $MOUNT) access mode
: 297      0826 2      DEVICE_CHAR : BBLOCK,      device characteristics
: 298      0827 2      DEVICE_COUNT, : BBLOCK,      number of devices specified
: 299      0828 2      LOG_NAME   : VECTOR,      logical name descriptor
: 300      0829 2      DEVICE_INDEX : LONG,      index into PHYS_NAME vector
: 301      0830 2      PHYS_NAME  : VECTOR,      physical device name descriptor
: 302      0831 2      MTL_ENTRY  : REF BBLOCK,      MTL block
: 303      0832 2      SMTL_ENTRY : REF BBLOCK,      MTL block for volume set
: 304      0833 2      SCH$GL_CURPCB : REF BBLOCK ADDRESSING_MODE (GENERAL),
: 305      0834 2      : ADDRESS of our PCB
: 306      0835 2      IOCS$GQ_MOUNTLST : VECTOR ADDRESSING_MODE (GENERAL),
: 307      0836 2      : system mounted volume list head
: 308      0837 2      EXE$GL_FLAGS : BITVECTOR ADDRESSING_MODE (GENERAL),
: 309      0838 2      : exec flags longword
: 310      0839 2      NSAS$GR_ALARMVEC : BBLOCK ADDRESSING_MODE (GENERAL),
: 311      0840 2      : alarm enable bit vector
: 312      0841 2      NSAS$GR_JOURNVEC : BBLOCK ADDRESSING_MODE (GENERAL);
: 313      0842 2      : journal enable bit vector
: 314      0843 2
: 315      0844 2      EXE$V_CONCEALED : UNSIGNED (6); ! concealed device flag
: 316      0845 2
: 317      0846 2
: 318      0847 2      EXTERNAL LITERAL

```

```
319      0848 2 LINKAGE
320      0849 2      ARGLST_IMGNAM = JSB (REGISTER = 2) :
321      0850 2      NOPRESERVE (0,1)
322      0851 2      NOTUSED (3,4,5,6,7,8,9,10,11),
323      0852 2
324      0853 2      EXE_CRE_GTABLE = JSB (REGISTER = 11) :
325      0854 2      NOPRESERVE (0,1,2,3,4,5,8);
326      0855 2
327      0856 2      EXTERNAL ROUTINE
328      0857 2      LOCK_IODB,
329      0858 2      UNLOCK_IODB,          ! lock the I/O data base
330      0859 2      NSASEVENT_AUDIT : ADDRESSING_MODE ! unlock the I/O data base
331      0860 2      (GENERAL),
332      0861 2      security auditing routine
333      0862 2      NSASARGLST_IMGNAM : ARGLST_IMGNAM ADDRESSING_MODE (GENERAL),
334      0863 2      insert IMGNAM into ARGLST
335      0864 2      EXE$CRE_GTABLE : EXE_CRE_GTABLE ADDRESSING_MODE (GENERAL);
336      0865 2      ! create group logical name table
337      0866 2
338      0867 2      ! First build the volume logical name table entry.
339      0868 2      Use logical name from command unless:
340      0869 2      - There is no logical name
341      0870 2      - It is a disk volume set
342      0871 2      - More than one device is being mounted, and they are not magtapes.
343      0872 2
344      0873 2      Get the logical name; either from the command or from the volume label.
345      0874 2
346      0875 2
347      0876 2      ! Copy the user-specified logical name to local storage.
348      0877 2
349      0878 2
350      0879 2      CH$MOVE (.LOG_NAME[0], .LOG_NAME[1], LOG_BUFFER);
351      0880 2      NAME_DESC [DSC$W_LENGTH] = .LOG_NAME [0];
352      0881 2      NAME_DESC [DSC$B_DTYPE] = 0;
353      0882 2      NAME_DESC [DSC$B_CLASS] = 0;
354      0883 2      NAME_DESC [DSC$A_POINTER] = LOG_BUFFER;
355      0884 2
356      0885 2
357      0886 2      ! Calculate the access mode for the logical name creation
358      0887 2
359      0888 2
360      0889 3      ACMODE = MIN ((IF .MOUNT_OPTIONS[OPT_SYSTEM]
361      0890 3          THEN PSL$C_EXEC
362      0891 3          ELSE PSL$C_SUPER), .CALLERS_ACMOD);
363      0892 2
364      0893 2      IF NOT .MOUNT_OPTIONS[OPT_LOG_NAME]
365      0894 2      OR .SMTL_ENTRY NEQ 0
366      0895 3      OR (.DEVICE_COUNT NEQ 1 AND (NOT .DEVICE_CHAR[DEV$V_SQD]))
367      0896 2      THEN
368      0897 3          BEGIN
369      0898 3          IF .DEVICE_CHAR[DEV$V_SQD]
370      0899 3          THEN P = TAPE_PREFIX
371      0900 3          ELSE P = DISK_PREFIX;
372      0901 3
373      0902 3          C = LABEL_LENGTH (VCB$S_VOLNAME, VCB[VCB$T_VOLNAME]);
374      0903 3          NAME_DESC [DSC$W_LENGTH] = [C + 5];
375      0904 3          NAME_DESC [DSC$A_POINTER] = LOG_BUFFER;
```

```
0905 3 CHSCOPY (5, .P, .C, VCB[VCB$T_VOLNAME], 0, .C+5, LOG_BUFFER);
0906 2 END;
0907 2
0908 2 ! Now create logical name. The physical device string is the equivalence
0909 2 string. If a tape mount, use the physical name of the first volume,
0910 2 otherwise use the physical name of the current volume.
0911 2
0912 2
0913 2 INDEX = .DEVICE_INDEX;
0914 2 IF .BBLOCK [UCB[UCB$L_DEVCHAR], DEV$V_SQD]
0915 2 THEN
0916 2     INDEX = 0;
0917 2
0918 2 ! Store the location of the LNM block in the MTL
0919 2
0920 2 ITEM_LIST [ 0 ] = ( LNMS_LNMB_ADDR^16 OR 4 );
0921 2 ITEM_LIST [ 1 ] = MTL_ENTRY[MTL$L_LOGNAME]; ! CAUTION USED BY ITEM_LIST [ 7 ]
0922 2 ITEM_LIST [ 2 ] = 0;
0923 2
0924 2 ! Store the location of the MTL in the LNM BLOCK.
0925 2 This causes the logical name deletion logic to clear the MTL's logical name
0926 2 pointer if the logical name is deleted, just as it does when a mailbox
0927 2 logical name is deleted.
0928 2
0929 2 ITEM_LIST [ 3 ] = ( LNMS_INDEX^16 or 4 );
0930 2 ITEM_LIST [ 4 ] = UPLIT ( LNMX$C_BACKPTR );
0931 2 ITEM_LIST [ 5 ] = 0;
0932 2 ITEM_LIST [ 6 ] = ( LNMS_STRING^16 or 4 );
0933 2 ITEM_LIST [ 7 ] = ITEM_LIST [ 1 ];
0934 2 ITEM_LIST [ 8 ] = 0;
0935 2
0936 2 ! Define equivalence string
0937 2
0938 2 ITEM_LIST [ 9 ] = ( LNMS_INDEX^16 or 4 );
0939 2 ITEM_LIST [ 10 ] = UPLIT ( 0 );
0940 2 ITEM_LIST [ 11 ] = 0;
0941 2
0942 2 ITEM_LIST [ 12 ] = ( LNMS_ATTRIBUTES^16 or 4 );
0943 3 ITEM_LIST [ 13 ] = ( IF .EXESGL_FLAGS[EXESV CONCEALED]
0944 3             THEN UPLIT ( LNMSM_TERMINAL OR LNMSM_CONCEALED )
0945 2             ELSE UPLIT ( LNMSM_TERMINAL ) );
0946 2 ITEM_LIST [ 14 ] = 0;
0947 2
0948 2 ! Use GETDVI to obtain the most universal device name for this physical
0949 2 device, FULLDEVNAM, and pass that to CRELNM as the equivalence name
0950 2 string.
0951 2
0952 2 PHYSNAM_DESC [ DSCSW_LENGTH ] = .PHYS_NAME [ .INDEX*2 ] - 1;
0953 2 PHYSNAM_DESC [ DSCSA_POINTER ] = .PHYS_NAME [ .INDEX*2 + 1 ] + 1;
0954 2 PHYSNAM_DESC [ DCSB_DTYPE ] = 0;
0955 2 PHYSNAM_DESC [ DCSB_CLASS ] = 0;
0956 2
0957 2 DVI_ITEM [ 0 ] = ( DVIS_FULLDEVNAM^16 or ( PHYS_LENGTH + 2 ) );
0958 2 DVI_ITEM [ 1 ] = FULLNAM;
0959 2 DVI_ITEM [ 2 ] = ITEM_LIST [ 15 ];
0960 2 DVI_ITEM [ 3 ] = 0;
0961 2 ITEM_LIST [ 15 ] = 0;
```

```
: 433      0962 2
: 434      P 0963 2 $GETDVIW (
: 435          devnam = PHYSNAM_DESC,
: 436          itmlst = DVI_ITEM      );
: 437
: 438      0966 2
: 439      0967 2 IF .FULLNAM [ 0 ] eql XC'_'
: 440          THEN BEGIN
: 441              ITEM_LIST [ 15 ] = ( LNMS_STRING^16 or ( .ITEM_LIST [ 15 ] - 1 ) );
: 442              ITEM_LIST [ 16 ] = FULLNAM + 1;
: 443          END
: 444      0972 3 ELSE BEGIN
: 445          ITEM_LIST [ 15 ] = ( LNMS_STRING^16 or .ITEM_LIST [ 15 ] );
: 446          ITEM_LIST [ 16 ] = FULLNAM;
: 447          END;
: 448      0976 2 ITEM_LIST [ 17 ] = 0;
: 449
: 450      0978 2 ! End item list
: 451      0979 2
: 452      0980 2 ITEM_LIST [ 18 ] = 0;
: 453
: 454      0982 2
: 455      0983 2 If the volume is to be mounted /group, then we have to create the group logical
: 456          name in the group of the current process. To avoid the situation that the group
: 457          table does not exist, we call the EXE$CRE_GTABLE routine, which creates the group
: 458          table if it doesn't already exist.
: 459      0988 2 IF .MOUNT_OPTIONS [OPT_GROUP]
: 460          THEN
: 461              BEGIN
: 462
: 463          P 0992 3 $FAO ( %ASCID 'LNMSGROUP_!OW',           ! Format LNMSGROUP_xxxxxx
: 464          P 0993 3 GROUP_TABLE,
: 465          P 0994 3 GROUP_TABLE,
: 466          P 0995 3 .(SCH$GL_CURPCB [PCBSL_UIC]) <16,16>; ! Convert our group number to octal
: 467
: 468          P 0997 3 $FAO ( %ASCID '!OW',           ! Format octal in ASCII
: 469          P 0998 3 ASC_GROUP_DESC,
: 470          P 0999 3 ASC_GROUP_DESC,
: 471          P 1000 3 .(SCH$GL_CURPCB [PCBSL_UIC]) <16,16>; ! Convert our group number to octal
: 472
: 473          P 1002 3 EXE$CRE_GTABLE (ASC_GROUP);           ! Create the LNMSGROUP_xxxxxx table
: 474
: 475          P 1004 2 END;                                ! exists
: 476
: 477          P 1006 2
: 478          P 1007 2 $CRELNM
: 479          P 1008 2     ( ACMODE = ACMODE,
: 480          P 1009 2     TABNAM = (IF .MOUNT_OPTIONS [OPT_SYSTEM]
: 481          P 1010 2         THEN SYSTEM_TABLE
: 482          P 1011 2         ELSE
: 483          P 1012 2             IF .MOUNT_OPTIONS [OPT_GRCUP]
: 484          P 1013 2             THEN GROUP_TABLE
: 485          P 1014 2             ELSE JOB_TABLE
: 486          P 1015 2
: 487          P 1016 2     LOGNAM = NAME_DESC,
: 488          P 1017 2     ITMLST = ITEM_LIST );
```

```
: 490 1019 2 ! Link the MTL entry into the list
491 1020 2
492 1021 2 MTL_ENTRY[MTL$L_UCB] = .UCB;
493 1022 2 LOC_R_IODB ();                                ! lock the mount list
494 1023 2
495 1024 2 IF .MOUNT_OPTIONS[OPT_GROUP] OR .MOUNT_OPTIONS[OPT_SYSTEM]
496 1025 2 THEN MOUNT_LIST = IOC$GQ_MOUNTLSI[1]
497 1026 2 ELSE
498 1027 3 BEGIN
499 1028 3     JIB = .SCH$GL_CURPCB[PCBSL_JIB];
500 1029 3     MOUNT_LIST = JIB[JIBSL_MTLBL];           ! get the tail of the mount list
501 1030 2     END;
502 1031 2     INSQUE (.MTL_ENTRY, ..MOUNT_LIST);
503 1032 2
504 1033 2 UNLOCK_IODB ();                                ! unlock the mount list
505 1034 2
506 1035 2 ! Now build the volume set logical name if we are mounting volume 1 of a
507 1036 2 disk volume set.
508 1037 2
509 1038 2 IF .SMTL_ENTRY NEQ 0
510 1039 2 THEN
511 1040 3 BEGIN
512 1041 3
513 1042 3     ! Get the logical name; either from the command or from the volume label.
514 1043 3
515 1044 3
516 1045 3     ! Copy the user-specified logical name to local storage.
517 1046 3
518 1047 3     CH$MOVE (.LOG_NAME[0], .LOG_NAME[1], LOG_BUFFER);
519 1048 3     NAME_DESC [DSC$W_LENGTH] = .LOG_NAME [0];
520 1049 3     NAME_DESC [DSC$B_DTYPE] = 0;
521 1050 3     NAME_DESC [DSC$B_CLASS] = 0;
522 1051 3     NAME_DESC [DSC$A_POINTER] = LOG_BUFFER;
523 1052 3
524 1053 3     IF NOT .MOUNT_OPTIONS[OPT_LOG_NAME]
525 1054 3     THEN
526 1055 4     BEGIN
527 1056 4         IF .DEVICE_CHAR[DEV$V_SQD]
528 1057 4         THEN P = TAPE_PREFIX
529 1058 4         ELSE P = DISK_PREFIX;
530 1059 4
531 1060 4         RVT = .VCB[VCBSL_RVT];
532 1061 4         C = LABEL_LENGTH(RVT$S_STRUCNAME, RVT[RVT$T_STRUCNAME]);
533 1062 4         NAME_DESC[DSC$W_LENGTH] = .C + 5;
534 1063 4         NAME_DESC[DSC$A_POINTER] = LOG_BUFFER;
535 1064 4         CH$COPY (5, .P, .C, RVT[RVT$T_STRUCNAME], 0, .C+5, LOG_BUFFER);
536 1065 4     END;
537 1066 3
538 1067 3     ! Now create logical name. The physical device string is the equivalence
539 1068 3     string. If a tape mount, use the physical name of the first volume,
540 1069 3     otherwise use the physical name of the current volume.
541 1070 3
542 1071 3     INDEX = .DEVICE_INDEX;
543 1072 3     IF .BBLOCK [UCB[UCBSL_DEVCHAR], DEV$V_SQD]
544 1073 3     THEN
545 1074 3         INDEX = 0;
546 1075 3
```

```
547 1076 3 | Store the location of the LNM block in the MTL
548 1077 3
549 1078 3 ITEM_LIST [ 0 ] = ( LNMS_LNMB_ADDR^16 OR 4 );
550 1079 3 ITEM_LIST [ 1 ] = SMTL_ENTRY[MTL$L_LOGNAME];
551 1080 3 ITEM_LIST [ 2 ] = 0;
552 1081 3
553 1082 3 | Store the location of the MTL in the LNM BLOCK.
554 1083 3 | This causes the logical name deletion logic to clear the MTL's logical
555 1084 3 | name pointer if the logical name is deleted, just as it does when a
556 1085 3 | mailbox logical name is deleted.
557 1086 3
558 1087 3 ITEM_LIST [ 3 ] = ( LNMS_INDEX^16 or 4 );
559 1088 3 ITEM_LIST [ 4 ] = UPLIT ( LNMX$C_BACKPTR );
560 1089 3 ITEM_LIST [ 5 ] = 0;
561 1090 3 ITEM_LIST [ 6 ] = ( LNMS_STRING^16 or 4 );
562 1091 3 ITEM_LIST [ 7 ] = ITEM_LIST [ 1 ];
563 1092 3 ITEM_LIST [ 8 ] = 0;
564 1093 3
565 1094 3 | Define equivalence string
566 1095 3
567 1096 3 ITEM_LIST [ 9 ] = ( LNMS_INDEX^16 or 4 );
568 1097 3 ITEM_LIST [ 10 ] = UPLIT ( 0 );
569 1098 3 ITEM_LIST [ 11 ] = 0;
570 1099 3
571 1100 3 ITEM_LIST [ 12 ] = ( LNMS_ATTRIBUTES^16 or 4 );
572 1101 4 ITEM_LIST [ 13 ] = ( IF .EXE$GL_FLAGS[EXE$V CONCEALED]
573 1102 4 | THEN UPLIT ( LNMSM_TERMINAL OR LNMSM_CONCEALED )
574 1103 3 | ELSE UPLIT ( LNMSM_TERMINAL ) );
575 1104 3 ITEM_LIST [ 14 ] = 0;
576 1105 3
577 1106 3 | Use GETDVI to obtain the most universal device name for this physical
578 1107 3 | device, FULLDEVNAM, and pass that to CRELNAM as the equivalence name
579 1108 3 | string.
580 1109 3
581 1110 3 PHYSNAM_DESC [ DSC$W_LENGTH ] = .PHYS_NAME [ :INDEX*2 ] - 1;
582 1111 3 PHYSNAM_DESC [ DSC$A_POINTER ] = .PHYS_NAME [ :INDEX*2 + 1 ] + 1;
583 1112 3 PHYSNAM_DESC [ DSC$B_DTYPE ] = 0;
584 1113 3 PHYSNAM_DESC [ DSC$B_CLASS ] = 0;
585 1114 3
586 1115 3 DVI_ITEM [ 0 ] = ( DVI$_FULLDEVNAM^16 or ( PHYS_LENGTH + 2 ) );
587 1116 3 DVI_ITEM [ 1 ] = FULLNAM;
588 1117 3 DVI_ITEM [ 2 ] = ITEM_LIST [ 15 ];
589 1118 3 DVI_ITEM [ 3 ] = 0;
590 1119 3 ITEM_LIST [ 15 ] = 0;
591 1120 3
592 P 1121 3 SGETDVIW (
593 P 1122 3 | devnam = PHYSNAM_DESC,
594 1123 3 | itmlst = DVI_ITEM );
595 1124 3
596 1125 3 IF .FULLNAM [ 0 ] eql %C'_'
597 1126 4 | THEN BEGIN
598 1127 4 | | ITEM_LIST [ 15 ] = ( LNMS_STRING^16 or ( .ITEM_LIST [ 15 ] - 1 ) );
599 1128 4 | | ITEM_LIST [ 16 ] = FULLNAM + 1;
600 1129 4 | | END
601 1130 4 | ELSE BEGIN
602 1131 4 | | ITEM_LIST [ 15 ] = ( LNMS_STRING^16 or .ITEM_LIST [ 15 ] );
603 1132 4 | | ITEM_LIST [ 16 ] = FULLNAM;
```

```
604      1133 3
605      1134 3
606      1135 3
607      1136 3
608      1137 3
609      1138 3
610      1139 3
611      P 1140 3
612      P 1141 3
613      P 1142 3
614      P 1143 3
615      P 1144 3
616      P 1145 3
617      P 1146 3
618      P 1147 3
619      P 1148 3
620      P 1149 3
621      1150 3
622      1151 3
623      1152 3
624      1153 3
625      1154 3
626      1155 3
627      1156 3
628      1157 3
629      1158 3
630      1159 3
631      1160 4
632      1161 4
633      1162 4
634      1163 3
635      1164 3
636      1165 3
637      1166 3
638      1167 3
639      1168 2
640      1169 2
641      1170 2
642      1171 3
643      1172 3
644      1173 3
645      1174 2
646      1175 2
647      1176 2
648      1177 2
649      1178 3
650      1179 3
651      1180 3
652      1181 3
653      1182 3
654      1183 3
655      1184 3
656      1185 3
657      1186 3
658      1187 3
659      1188 3
660      1189 3

      END;
      ITEM_LIST [ 17 ] = 0;
      ! End item list
      ITEM_LIST [ 18 ] = 0;
      SCRELNM
      ( ACMODE = ACMODE,
        TABNAM = (IF .MOUNT_OPTIONS [ OPT_SYSTEM ]
        THEN SYSTEM_TABLE
        ELSE
          IF .MOUNT_OPTIONS [ OPT_GROUP ]
          THEN GROUP_TABLE
          ELSE JOB_TABLE
        )
      ),
      LOGNAM = NAME_DESC,
      ITMLST = ITEM_LIST );
      SMTL_ENTRY[MTL$L_UCB] = .UCB;
      SMTL_ENTRY[MTL$V_VOLSET] = 1;      ! identify as a volume set entry
      LOCK_IODB ();                      ! lock the mount list
      IF .MOUNT_OPTIONS[OPT_GROUP] OR .MOUNT_OPTIONS[OPT_SYSTEM]
      THEN MOUNT_LIST = IOC$GQ_MOUNTLSI[1]
      ELSE
        BEGIN
          JIB = .SCH$GL_CURPCB[PCB$L_JIB];
          MOUNT_LIST = JIB[JIB$L_MTLBL]; ! get the tail of the mount list
        END;
        INSQUE (.SMTL_ENTRY, ..MOUNT_LIST);
      UNLOCK_IODB ();                      ! unlock the mount list
      END;

      IF (.SCH$GL_CURPCB [PCB$V_SECAUDIT]
      OR .NSASGR_ALARMVEC [NSA$V_EVT_MOUNT]
      OR .NSASGR_JOURNVEC [NSA$V_EVT_MOUNT])
      THEN
        BEGIN
          LOCAL
            ARGLIST : BBLOCK[NSASK_ARG2_LENGTH],      ! security auditing argument list
            ORB : REF BBLOCK,                         ! address of the ORB
            TEMP_PROT;                            ! temporary protection word
            CHSFILL (0, NSASK_ARG2_LENGTH, ARGLIST); ! zero argument list
            ORB = .UCB [UCB$L_ORB];                  ! get ORB address
          !
          ! Set up the security auditing argument list header
          !
          ARGLIST [NSASL_ARG_COUNT] = ( NSASK_ARG2_LENGTH/4 ) - 4;
        
```

```
661      1190 3
662      1191 3
663      1192 3
664      1193 3
665      1194 3
666      1195 3
667      1196 3
668      1197 3
669      1198 3
670      1199 3
671      1200 3
672      1201 3
673      1202 3
674      1203 3
675      1204 3
676      1205 3
677      1206 3
678      1207 3
679      1208 3
680      1209 3
681      1210 3
682      1211 3
683      1212 3
684      1213 3
685      1214 3
686      1215 3
687      1216 3
688      1217 3
689      1218 3
690      1219 3
691      1220 3
692      1221 3
693      1222 3
694      1223 4
695      1224 4
696      1225 4
697      1226 4
698      1227 4
699      1228 3
700      1229 3
701      1230 3
702      1231 3
703      1232 3
704      1233 3
705      1234 3
706      1235 3
707      1236 3
708      1237 3
709      1238 3
710      1239 3
711      1240 3
712      1241 3
713      1242 3
714      1243 3
715      1244 3
716      1245 3
717      1246 3

      ARGLIST [NSA$L_ARG_ID] = NSA$K_RECID_VOL_MOU;      | initialize length of argument list
      IF .SCH$GL_CURPCB [PCBSV_SECAUDIT]                 | less vol-set pkt and arg count
      THEN
          ARGLIST [NSA$V_ARG_FLAG_MANDY] = 1;           | initialize record id as mount
          ! set up proper flags
          IF .NSA$GR_ALARMVEC [NSA$V_EVT_MOUNT]
          THEN
              ARGLIST [NSA$V_ARG_FLAG_ALARM] = 1;        | mandatory auditing
              IF .NSA$GR_JOURNVEC [NSA$V_EVT_MOUNT]
              THEN
                  ARGLIST [NSA$V_ARG_FLAG_JOURN] = 1;    | generate alarm for this record
                  ! journal this record
          ARGLIST [NSA$B_ARG_PKTNUM] = 7;                  | initialize number of items
          ! less vol-set pkt

      ! Set up the security auditing argument list for mount

      ARGLIST [NSA$L_ARG2_UIC_TM] = NSA$K_ARG_MECH_LONG^16 + NSA$K_PKTTYP_UIC;
      ARGLIST [NSA$L_ARG2_UIC] = .ORB [ORBSL_OWNER];      ! set device owner UIC
      ARGLIST [NSA$L_ARG2_VOLPRO_TM] = NSA$K_ARG_MECH_WORD^16 + NSA$K_PKTTYP_VOLPRO;

      ! Get the volume protection

      TEMP_PROT = 0;                                     ! clear temp location
      IF .ORB [ORBSV_PROT_16]
      THEN
          TEMP_PROT = .ORB [ORBSW_PROT]                  ! standard SOGW protection
      ELSE
          BEGIN
              TEMP_PROT <0,4> = .(ORB [ORBSL_SYS_PROT])<0,4>; | vector protection
              TEMP_PROT <4,4> = .(ORB [ORBSL_OWN_PROT])<0,4>; | system
              TEMP_PROT <8,4> = .(ORB [ORBSL_GRP_PROT])<0,4>; | owner
              TEMP_PROT <12,4> = .(ORB [ORBSL_WOR_PROT])<0,4>; | group
          END;
      ARGLIST [NSA$L_ARG2_VOLPRO] = .TEMP_PROT;          ! set volume protection mask

      ARGLIST [NSA$L_ARG2_MOUFLG_TM] = NSA$K_ARG_MECH_LONG^16 + NSA$K_PKTTYP_MOUFLG;
      ARGLIST [NSA$L_ARG2_MOUFLG] = .MOUNT_FLAGS;        ! set mount-flags

      NSA$ARGLST_IMGNAM (ARGLIST [NSA$L_ARG2_IMGNAM_TM]); ! set image name

      ARGLIST [NSA$L_ARG2_DEVNAM_TM] = NSA$K_ARG_MECH_DESCR^16 + NSA$K_PKTTYP_DEVNAM;
      IF .FULLNAM [0] EQL %C'_'
      THEN
          ITEM_LIST [15] = .ITEM_LIST [15] + 1;           | include the ' ' char
          ARGLIST [NSA$L_ARG2_DEVNAM_SIZ] = .ITEM_LIST [15]; | set size of full device name
          ARGLIST [NSA$L_ARG2_DEVNAM_PTR] = FULLNAM;       | set full device name buffer address

      ARGLIST [NSA$L_ARG2_LOGNAM_TM] = NSA$K_ARG_MECH_DESCR^16 + NSA$K_PKTTYP_LOGNAM;
      ARGLIST [NSA$L_ARG2_LOGNAM_SIZ] = .NAME_DESC [DSC$W_LENGTH]; ! set size of logical name
      ARGLIST [NSA$L_ARG2_LOGNAM_PTR] = LOG_BUFFER;       ! set logical name buffer address
```

```

718 1247 3      ARGLIST [NSASL_ARG2_VOLNAM_TM] = NSASK_ARG_MECH_DESCR^16 + NSASK_PKTTYP_VOLNAM;
719 1248 3      ARGLIST [NSASL_ARG2_VOLNAM_SIZE] =
720 1249 3      LABEL LENGTH (VCBSS VOLNAME, VCB [VCB$T VOLNAME]); | set size of volume name
721 1250 3      ARGLIST [NSASL_ARG2_VOLNAM_PTR] = VCB [VCB$T_VOLNAME]; | set volume name buffer address
722 1251 3
723 1252 3
724 1253 3      | If the volume is a member of a volume set, then
725 1254 3      |   a. increment argument count
726 1255 3      |   b. increment number of packets
727 1256 3      |   c. set up volume set descriptor
728 1257 3
729 1258 3
730 1259 4      IF ( NOT .BBLOCK [UCB [UCBSL_DEVCHAR], DEV$V_FOR] )
731 1260 4      AND ( .VCB [VCBSW_RVN] NEQ 0 )
732 1261 3      THEN
733 1262 4      BEGIN
734 1263 4      ARGLIST [NSASL_ARG_COUNT] = .ARGLIST [NSASL_ARG_COUNT] + 3; ! count vol-set pkt
735 1264 4      ARGLIST [NSASL_ARG_PKTNUM] = .ARGLIST [NSASL_ARG_PKTNUM] + 1;
736 1265 4      ARGLIST [NSASL_ARG2_VOLSNAM_TM] = NSASK_ARG_MECH_DESCR^16 + NSASK_PKTTYP_VOLSNAM;
737 1266 4      RVT = .VCB [VCBSL_RVT];
738 1267 4      ARGLIST [NSASL_ARG2_VOLSNAM_SIZE] =
739 1268 4      LABEL LENGTH (RVT$ STRUCNAME, RVT [RVT$ STRUCNAME]); | set size of vol-set name
740 1269 4      ARGLIST [NSASL_ARG2_VOLSNAM_PTR] = RVT [RVT$ STRUCNAME]; | set vol-set name buffer address
741 1270 3      END;
742 1271 3
743 1272 3      CALLG (ARGLIST, NSASEVENT_AUDIT); ! call event audit routine
744 1273 3
745 1274 2      END;                                ! end of block defining ARGLIST
746 1275 2
747 1276 1 END;                                ! end of routine ENTER_LOGNAME

```

.PSECT SPLIT\$,NOWRT,NOEXE,2

24 45 50 41 54 00000 P.AAA:	.ASCII \TAPES\
24 4B 53 49 44 00005 P.AAB:	.ASCII \DISKS\
00 00 4D 45 54 53 59 53 24 4D 4E 4C 0000C P.AAD:	.BLKB 2
010E000A 00018 P.AAC:	.ASCII \LNMS\$SYSTEM\<0><0>
00000000 0001C P.AAF:	.LONG 17694730
00000000 00020 P.AAE:	.ADDRESS P.AAD
010E0007 00028 P.AAF:	.ASCII \LNMS\$JOB\<0>
00000000 0002C P.AAE:	.LONG 17694727
30 30 30 30 30 5F 50 55 4F 52 47 24 4D 4E 4C 00030 P.AAG:	.ADDRESS P.AAF
30 0003F P.AAG:	.ASCII \LNMS\$GROUP_000000\
FFFFFFFFFF81 00040 P.AAH:	.LONG -127
00000000 00044 P.AAI:	.LONG 0
00000300 00048 P.AAJ:	.LONG 768
00000200 0004C P.AAK:	.LONG 512
00 00 57 4F 21 5F 50 55 4F 52 47 24 4D 4E 4C 00050 P.AAM:	.ASCII \LNMS\$GROUP_!OW\<0><0><0>
00 0005F P.AAM:	
010E000D 00060 P.AAL:	.LONG 17694733
00000000 00064 P.AAM:	.ADDRESS P.AAM
00 57 4F 21 00068 P.AAO:	.ASCII \!OW\<0>
010E0003 0006C P.AAN:	.LONG 17694723
00000000 00070 P.AAN:	.ADDRESS P.AAO

FFFFF81 00074 P.AAP: .LONG -127
00000000 00078 P.AAQ: .LONG 0
00000300 0007C P.AAR: .LONG 768
00000200 00080 P.AAS: .LONG 512

TAPE_PREFIX= P.AAA
DISK_PREFIX= P.AAB
SYSTEM_TABLE= P.AAC
JOB_TABLE= P.AAE
.EXTRN MOUNT FLAGS, CALLERS_ACMOD
.EXTRN DEVICE CHAR, DEVICE COUNT
.EXTRN LOG NAME, DEVICE INDEX
.EXTRN PHYS NAME, SMTL ENTRY
.EXTRN SCH\$GL_CURPCB, TOC\$GQ_MOUNTLST
.EXTRN EXE\$GL_FLAGS, NSASGR_ALARMVEC
.EXTRN NSASGR_JOURNVEC
.EXTRN EXE\$V CONCEALED
.EXTRN LOCK_IODB, UNLOCK_IODB
.EXTRN NSASEVENT_AUDIT
.EXTRN NSASARGLST_IMGNAM
.EXTRN EXE\$CRE_GTABLE, SYSSGETDVIW
.EXTRN SYSSFAO, SYSSCRELNM

.PSECT \$CODE\$,NOWRT,2

		OFFC 00000											
0084	CE	0000'	5E	FDEC	CE	9E	00002	.ENTRY	ENTER_LOGNAME, Save R2,R3,R4,R5,R6,R7,R8,-		0734		
		7C	AE	CF	10	28	00007		MOVAB	R9,R10,R11			
FEF8	CD	0080	CE	0084	CE	9E	00013	MOV3	-532(SP), SP		0810		
		74	AE	30303030	8F	DO	0001A	MOVL	#16, P.AAG, TABLE_NAME				
		78	AE	30303030	8F	DO	00022	MOVAB	#16, GROUP_TABLE				
		6C	AE		06	DO	0002A	MOVL	TABLE_NAME, GROUP_TABLE+4				
		70	AE	74	AE	9E	0002E	MOVAB	#808464432, ASC_GROUP				
13	13	0000G	DF	0000G	CF	28	00033	MOV3	#808464432, ASC_GROUP+4		0879		
		F8	AD	0000G	CF	3C	0003D	MOVZWL	ASC_GROUP, ASC_GROUP_DESC+4				
		FC	AD	FEF8	CD	9E	00043	MOVAB	LOG_NAME, @LOG_NAME+4, LOG_BUFFER				
		05		0000G	CF	E9	00049	BLBC	LOG_NAME, NAME_DESC				
		50			01	DO	0004E	MOVL	LOG_BUFFER, NAME_DESC+4				
52	07				03	11	00051	MOVL	MOUNT_OPTIONS+1, -1\$		0889		
					02	DO	00053	1\$:	BRB	#1, R0			
					50	D1	00056	2\$:	MOVL	2\$			
					05	15	0005B		CMPL	#2, R0			
					50	DO	0005D		BLEQ	#0, CALLERS_ACMOD			
07	07	0000G	AE	0000G	CF	50	DO	00062	3\$:	MOVL	#0, CALLERS_ACMOD, R0		0891
		08		0000G	CF	05	E1	00066	MOVL	R0, ACMODE			
		0000G	CF	0000G	CF	D5	0006C	BBC	#5, MOUNT_OPTIONS+3, 4\$				
		0000G	CF	0000G	OD	12	00070	TSTL	SMIL_ENTRY				
		0000G	CF	0000G	CF	D1	00072	BNEQ	4\$				
01		0000G	58	13	00077	CMPL	DEVICE_COUNT, #1		0895				
0000G	CF	0000G	E0	00079		BEQL	7\$						
0000G	CF	0000G	E1	0007F	4\$:	BBS	#5, DEVICE_CHAR, 7\$						
6E		0000'	CF	9E	00085	BBC	#5, DEVICE_CHAR, 5\$						
6E		0000'	CF	11	0008A	MOVAB	TAPE_PREFIX, P						
56	08	AC	DO	00091	5\$:	BRB	6\$		0900				
08			MOVAB	DISK_PREFIX, P									
			MOVL	VCB, R6		0902							

				14	A6	9F	00095	PUSHAB	20(R6)					
					0C	DD	00098	PUSHL	#12					
					02	FB	0009A	CALLS	#2, LABEL_LENGTH					
					50	DO	0009F	MOVL	R0, C					
					05	C1	000A3	ADDL3	#5, C, R0	0903				
					50	BO	000A8	MOVW	RO, NAME_DESC					
					CD	9E	000AC	MOVAB	LOG_BUFFER, NAME_DESC+4	0904				
					50	DO	000B2	MOVL	RO, R10	0905				
					CD	9E	000B5	MOVAB	LOG_BUFFER, R7					
					05	2C	000BA	MOVCS	#5, @P, #0, R10, (R7)					
					67		000C0							
					0E	18	000C1	BGEQ	7\$					
					05	C0	000C3	ADDL2	#5, R7					
					05	C2	000C6	SUBL2	#5, R10					
					AE	2C	000C9	MOVCS	C, 20(R6), #0, R10, (R7)					
					67		000D0							
					56	0000G	CF	DO	000D1 7\$:	MOVL	DEVICE_INDEX, INDEX	0913		
					57		04	AC	DO 000D6	MOVL	UCB, R7	0914		
					02	38	A7	05	E1 000DA	BBC	#5, 56(R7), 8\$			
					00C4	CE	00090004	56	D4 000DF	CLRL	INDEX	0916		
					000G	CF	00090004	8F	DO 000E1 8\$:	MOVL	#589828, ITEM_LIST	0920		
							00C8	CE	D4 000F2	ADDL3	#16, MTL_ENTRY, ITEM_LIST+4	0921		
							00CC	CE	00010004	CLRL	ITEM_LIST+8	0922		
							00D0	CE	00000	MOVL	#65540, ITEM_LIST+12	0929		
							00D4	CE	D4 00106	MOVAB	P.AAH, ITEM_LIST+16	0930		
							00D8	CE	00020004	CLRL	ITEM_LIST+20	0931		
							00DC	CE	00C4	MOVL	#131076, ITEM_LIST+24	0932		
							00E0	CE	9E 00113	MOVAB	ITEM_LIST+4, ITEM_LIST+28	0933		
							00E4	CE	00010004	CLRL	ITEM_LIST+32	0934		
							00E8	CE	00000	MOVL	#65540, ITEM_LIST+36	0938		
							00EC	CE	D4 0012E	MOVAB	P.AAI, ITEM_LIST+40	0939		
							00F0	CE	00030004	CLRL	ITEM_LIST+4	0940		
							07 00000000G	00	00G	8F	DO 00132	MOVL	#196612, ITEM_LIST+48	0942
							50		00000	BBC	S\$EXEV CONCEALED, EXE\$GL_FLAGS, 9\$	0943		
							50		00000	MOVAB	P.AAJ, R0	0944		
							00F4	CE	00000	BRB	10\$			
							50		00000	MOVAB	P.AAK, R0	0945		
							00F8	CE	0014F 10\$:	MOVL	R0, ITEM_LIST+52	0943		
							56		00000	CLRL	ITEM_LIST+56	0946		
							01		00158	ASHL	#1, INDEX R0	0952		
							0000GCF40		DF 0015C	PUSHAL	PHYS_NAME[R0]			
							9E		01 A3 00161	SUBW3	#1, @SP+, PHYSNAME_DESC			
							0000GCF40		01 C1 00167	ADDL3	#1, PHYS_NAME+4[R0], PHYSNAME_DESC+4	0953		
							0094	CE	00E80011	CLRW	PHYSNAME_DESC+2	0954		
							0098	CE	00A4	MOVL	#15204369, DVI_ITEM	0957		
							009C	CE	00FC	MOVAB	FULLNAME, DVI_ITEM+4	0958		
							00A0	CE	9E 00184	MOVAB	ITEM_LIST+60, DVI_ITEM+8	0959		
							00FC	CE	D4 0018B	CLRL	DVI_ITEM+12	0960		
							7E	7C	00193	CLRL	ITEM_LIST+60	0961		
							7E	7C	00195	CLRQ	-(SP)	0965		
							00A4	CE	9F 00197	PUSHAB	DVI_ITEM			
							00CC	CE	9F 0019B	PUSHAB	PHYSNAME_DESC			
							7E	7C	0019F	CLRQ	-(SP)			
							00A4	CE	001A1	CALLS	#8, SY\$GETDVIW			
							5F	8F	CE 91 001A8	CMPB	FULLNAME, #95			
							19	12	001AE	BNEQ	11\$	0967		

00FC	50	00FC	CE	50	00020000	01	C3	001B0	SUBL3	#1, ITEM_LIST+60, R0	0969	
	CE			CE	00A5	CE	C9	001B6	BISL3	#131072, R0, ITEM_LIST+60		
0100						OC	9E	001C0	MOVAB	FULLNAM+1, ITEM_LIST+64	0970	
00FE				02	88	001C9		BRB	12\$	0967		
0100	CE	00A4	CE	9E	001CE			BISB2	#2, ITEM_LIST+60	0973		
		0104	CE	7C	001D5	11\$:		MOVAB	FULLNAM, ITEM_LIST+64	0974		
		0000G	CF	95	001D9	12\$:		CLRQ	ITEM_LIST+68	0976		
				46	18	001DD		TSTB	MOUNT_OPTIONS	0988		
		50 00000000G	00	DO	001DF			BGEQ	13\$			
		7E	00BE	CO	3C	001E6		MOVL	SCH\$GL CURPCB, R0	0995		
			0080	CE	9F	001EB		MOVZWL	190(R0), -(SP)			
			0084	CE	9F	001EF		PUSHAB	GROUP_TABLE			
			0000'	CF	9F	001F3		PUSHAB	GROUP_TABLE			
		00000000G	00	FB	001F7			P.AAL				
		50 00000000G	00	DO	001FE			CALLS	#4, SYS\$FAO			
		7E	00BE	CO	3C	00205		MOVL	SCH\$GL CURPCB, R0	1000		
			70	AE	9F	0020A		MOVZWL	190(R0), -(SP)			
			74	AE	9F	0020D		PUSHAB	ASC_GROUP_DESC			
			0000'	CF	9F	00210		PUSHAB	ASC_GROUP_DESC			
		00000000G	00	FB	00214			PUSHAB	P.AAN			
	5B	74	AE	9E	0021B			CALLS	#4, SYS\$FAO			
		00000000G	00	16	0021F			MOVAB	ASC_GROUP, R11	1002		
			00C0	CE	9F	00225	13\$:	JSB	EXE\$CRE_GTABLE			
			0C	AE	9F	00229		PUSHAB	ITEM_LIST	1017		
			F8	AD	9F	0022C		PUSHAB	ACMODE			
	07	0000G	CF	E9	0022F			PUSHAB	NAME_DESC			
	50	0000'	CF	9E	00234			BLBC	MOUNT_OPTIONS+1, 14\$			
			12	11	00239			MOVAB	SYSTEM_TABLE, R0			
			0000G	CF	95	0023B	14\$:	BRB	16\$			
			07	18	0023F			TSTB	MOUNT_OPTIONS			
	50	0088	CE	9E	00241			BGEQ	15\$			
			50	05	11	00246		MOVAB	GROUP_TABLE, R0			
			0000'	CF	9E	00248	15\$:	BRB	16\$			
			50	DD	0024D	16\$:		MOVAB	JOB_TABLE, R0			
		00000000G	00	7E	D4	0024F		PUSHL	RO			
			50	05	FB	00251		CLRL	-(SP)			
			0000G	CF	DO	00258		CALLS	#5, SYS\$CRELNM			
	OC			50	57	DO	0025D		MOVL	MTL_ENTRY, R0	1021	
	A0			0000G	CF	00	FB	00261		MOVL	R7, 12(R0)	
				0000G	CF	95	00266		CALLS	#0, LOCK_IODB	1022	
				05	19	0026A		TSTB	MOUNT_OPTIONS	1024		
			09	0000G	CF	E9	0026C		BLSS	17\$		
			58 00000000G	00	9E	00271	17\$:	BLBC	MOUNT_OPTIONS+1, 18\$			
				10	11	00278		MOVAB	IOCSGQ_MOUNTLIST+4, MOUNT_LIST	1025		
			50 00000000G	00	DO	0027A	18\$:	BRB	19\$			
				5B	0080	CO	DO	00281	MOVL	SCH\$GL CURPCB, R0	1028	
				58	04	AB	9E	00286	MOVL	128(R0), JIB		
			0000G	BB	0000G	DF	0E	0028A	MOVAB	4(R11), MOUNT_LIST	1029	
				00	B8	0000G	FB	00290	INSQUE	@MTL_ENTRY, @0(MOUNT_LIST)	1031	
				0000G	CF	0000G	CF	D5	CALLS	#0, UNLOCK_IODB	1033	
								03	TSTL	SMTL_ENTRY	1038	
								12	BNEQ	20\$		
								31	BRW	35\$		
	FEF8	CD	0000G	DF	0000G	CF	28	0029E	20\$:	MOVC3	LOG_NAME, @LOG_NAME+4, LOG_BUFFER	1047
			F8	AD	0000G	CF	3C	002A8		MOVZWL	LOG_NAME, NAME_DESC	1048
			FC	AD	FEF8	CD	9E	002AE		MOVAB	LOG_BUFFER, NAME_DESC+4	1051
			56	0000G	CF	05	E0	002B4		BBS	#5, MOUNT_OPTIONS+3, 23\$	1053

07	0000G	CF	0000'	05	E1	002BA	BBC	#5, DEVICE_CHAR, 21\$	1056			
	6E			05	9E	002C0	MOVAB	TAPE_PREFIX, P	1057			
	6E		0000'	11	002C5		BRB	22\$				
	50		08	CF	9E	002C7	21\$:	MOVAB	DISK_PREFIX, P			
	59		20	AC	DO	002CC	22\$:	MOVL	VCB, R0			
			OC	A0	DO	002D0		MOVL	32(R0), RVT			
				A9	9F	002D4		PUSHAB	12(RVT\$)			
				OC	DD	002D7		PUSHL	#12			
	0000V	CF		02	FB	002D9	CALLS	#2, LABEL_LENGTH				
	04	AE		50	DO	002DE	MOVL	R0, C				
	04	AE		05	C1	002E2	ADDL3	#5, C, R0				
	F8	AD		50	BO	002E7	MOVW	RJ, NAME_DESC				
	FC	AD	FEF8	CD	9E	002EB	MOVAB	LOG_BUFFER, NAME_DESC+4				
	5A		5A	50	DO	002F1	MOVL	R0, R10				
			57	CD	9E	002F4	MOVAB	LOG_BUFFER, R7				
5A	00	00	BE	05	2C	002F9	MOVCS	#5, @P, #0, R10, (R7)				
				67		002FF						
				0E	18	00300	BGEQ	23\$				
			57	05	C0	00302	ADDL2	#5, R7				
			5A	05	C2	00305	SUBL2	#5, R10				
5A	00	0C	A9	04	AE	00308	MOVCS	C, 12(RVT), #0, R10, (R7)				
				67		0030F						
				56	0000G	CF	DO	00310	23\$:			
				52		04	AC	DO	00315			
	02	38	A2	05	E1	00319	BBC	#5, 56(R2), 24\$				
				56	D4	0031E	CLRL	INDEX				
00C4	CE	0000G	CE	00090004	8F	DO	00320	24\$:	MOVL	#589828, ITEM_LIST		
				10	C1	00329	ADDL3	#16, SMIL_ENTRY, ITEM_LIST+4				
				00C8	CE	D4	00331		CLRL	ITEM_LIST#8		
				00CC	CE	00010004	8F	DO	00335	MOVL	#65540, ITEM_LIST+12	
				00D0	CE	0000'	CF	9E	0033E	MOVAB	P.AAP, ITEM_LIST+16	
				00D4	CE	D4	00345		CLRL	ITEM_LIST+20		
				00D8	CE	00020004	8F	DO	00349	MOVL	#131076, ITEM_LIST+24	
				00DC	CE	00C4	CE	9E	00352	MOVAB	ITEM_LIST+4, ITEM_LIST+28	
				00E0	CE	D4	00359		CLRL	ITEM_LIST+32		
				00E4	CE	00010004	8F	DO	0035D	MOVL	#65540, ITEM_LIST+36	
				00E8	CE	0000'	CF	9E	00366	MOVAB	P.AAQ, ITEM_LIST+40	
				00EC	CE	D4	0036D		CLRL	ITEM_LIST+44		
				00F0	CE	00030004	8F	DO	00371	MOVL	#196512, ITEM_LIST+48	
	07	000000000G	00	000G	E1	0037A	BBC	S\$EXEV CONCEALED, EXE\$GL_FLAGS, 25\$	1100			
			50	0000'	CF	9E	00382	MOVAB	P.AAR, R0			
				05	11	00387	BRB	26\$				
				50	0000'	CF	9E	00389	25\$:	MOVAB	P.AAS, R0	
				00F4	CE	0000'	50	DO	0038E	26\$:	MOVL	R0, ITEM_LIST+52
				00F8	CE	D4	00393		CLRL	ITEM_LIST+56		
				56	02	C4	00397		MULL2	#2, R6		
				0000GCF46	DF	0039A			PUSHAL	PHYS_NAME[R6]		
00B8	CE	9E		01	A3	0039F	SUBW3	#1, @SP)+, PHYSNAM_DESC				
00BC	CE	0000GCF46		01	C1	003A5	ADDL3	#1, PHYS NAME+4[R6], PHYSNAM_DESC+4				
		00BA		CE	B4	003AE	CLRW	PHYSNAM_DESC+2				
		0094	CE	00E80011	8F	DO	003B2	MOVL	#15204369, DVI_ITEM			
		0098	CE	00A4	CE	9E	003BB	MOVAB	FULLNAM, DVI_ITEM+4			
		009C	CE	00FC	CE	9E	003C2	MOVAB	ITEM_LIST+60, DVI_ITEM+8			
				00A0	CE	D4	003C9		CLRL	DVI_ITEM+12		
				00FC	CE	D4	003CD		CLRL	ITEM_LIST+60		
				7E	7C	003D1		CLRQ	-(SP)			
				7E	7C	003D3		CLRQ	-(SP)			

			00A4	CE	9F	003D5	PUSHAB	DVI ITEM	
			00CC	CE	9F	003D9	PUSHAB	PHYSNAM_DESC	
			5F	8F	00A4	08	FB	003DF	CLRQ -(SP)
			00000000G	00	00A4	19	12	003EC	CALLS #8, SYSSGETDVIW
			50	CE	CE	91	003E6	CMPB FULLNAM, #95	1125
			0100	CE	00020000	8F	C9	003F4	BNEQ 27\$
			0100	CE	00A5	CE	9E	003FE	SUBL3 #1, ITEM_LIST+60, R0
			00FE	CE	00A4	01	C3	003EE	BISL3 #131072, R0, ITEM_LIST+60
			0100	CE	00A4	02	88	00407	MOVAB FULLNAM+1, ITEM_LIST+64
			0104	CE	0104	CE	9E	0040C	BRB 28\$
			00C0	CE	00C0	7C	00413	BISB2 #2, ITEM_LIST+60	
			00C0	CE	00C0	CE	9F	00417	MOVAB FULLNAM, ITEM_LIST+64
			00C0	CE	00C0	0C	AE	0041B	CLRQ ITEM_LIST+68
			07	50	0000G	F8	AD	0041E	PUSHAB ITEM_LIST
			07	50	0000G	07	CF	E9	PUSHAB ACMODE
			07	50	0000G	07	CF	9E	BLBC NAME_DESC
			07	50	0000G	12	11	0042B	MOVAB MOUNT_OPTIONS+1, 29\$
			07	50	0000G	12	11	0042B	MOVAB SYSTEM_TABLE, R0
			07	50	0000G	07	18	00431	BRB 31\$
			07	50	0000G	05	11	00433	TSTB MOUNT_OPTIONS
			07	50	0000G	05	11	00438	BGEQ 30\$
			07	50	0000G	50	DD	0043A	MOVAB GROUP_TABLE, R0
			07	50	0000G	50	DD	0043F	BRB 31\$
			07	50	0000G	50	DD	0043F	MOVAB JOB_TABLE, R0
			07	50	0000G	7E	D4	00441	PUSHL R0
			07	50	0000G	05	FB	00443	CLRL -(SP)
			07	50	0000G	05	FB	0044A	CALLS #5, SYSSCRELNM
			07	50	0000G	52	DO	0044F	MOVBL SMTL_ENTRY, R0
			07	50	0000G	01	88	00453	MOVBL R2, T2(R0)
			07	50	0000G	00	FB	00457	BISB2 #1, 11(R0)
			07	50	0000G	05	95	0045C	CALLS #0, LOCK_IODB
			07	50	0000G	05	19	00460	TSTB MOUNT_OPTIONS
			07	50	0000G	09	0000G	E9	BLSS 32\$
			07	50	0000G	58	00000000G	E9	BLBC MOUNT_OPTIONS+1, 33\$
			07	50	0000G	58	00000000G	00	MOVAB IOCSGQ_MOUNTLIST+4, MOUNT_LIST
			07	50	0000G	58	00000000G	10	BRB 34\$
			07	50	0000G	58	00000000G	00	MOVBL SCHSGL_CURPCB, R0
			07	50	0000G	58	00000000G	00	MOVBL 128(R0), JIB
			07	50	0000G	58	00000000G	04	MOVAB 4(R11), MOUNT_LIST
			07	50	0000G	00	B8	0000G	INSQUE ASMTL_ENTRY, 50(MOUNT_LIST)
			07	50	0000G	00	CF	0000G	CALLS #0, UNLOCK_IODB
			07	50	0000G	56	00000000G	00	MOVBL SCHSGL_CURPCB, R6
			07	50	0000G	56	00000000G	03	BBS #3, 39(R6), 36\$
			07	50	0000G	56	00000000G	E0	BBS #1, NSASGR_ALARMVEC, 36\$
			07	50	0000G	56	00000000G	01	BBS #1, NSASGR_JOURNVEC, 36\$
			07	50	0000G	04	E0	0049F	RET
			07	50	0000G	04	E0	004A7	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50	0000G	00	2C	004A8	36\$:
			07	50	0000G	00	2C	004A8	MOVCS #0, (SP), #0, #96, ARGLIST
			07	50</					

14	AE	02	88	004E2	BISB2	#2, ARGLIST+8	1202	
15	AE	07	90	004E6	MOV B	#7, ARGLIST+9	1204	
18	AE 0002000C	8F	DO	004EA	MOVL	#131084, ARGLIST+12	1211	
1C	AE	60	DO	004F2	MOVL	(ORB), ARGLIST+16	1212	
20	AE 0001000D	8F	DO	004F6	MOVL	#65549, ARGLIST+20	1214	
		51	D4	004FE	CLRL	TEMP PROT	1218	
		06	0B	A0 E9 00500	BLBC	11(ORB), 40\$	1219	
		51	18	A0 3C 00504	MOVZWL	24(ORB), TEMP_PROT	1221	
				18 11 00508	BRB	41\$		
51	04	00	18	A0 F0 0050A	INSV	24(ORB), #0, #4, TEMP PROT	1224	
51	04	04	1C	A0 F0 00510	INSV	28(ORB), #4, #4, TEMP PROT	1225	
51	04	08	20	A0 F0 00516	INSV	32(ORB), #8, #4, TEMP PROT	1226	
51	04	OC	24	A0 F0 0051C	INSV	36(ORB), #12, #4, TEMP PROT	1227	
		24	AE	51 DO 00522	41\$:	MOVL	TEMP PROT, ARGLIST+24	1229
		28	AE 0002000E	8F DO 00526		MOVL	#131086, ARGLIST+28	1231
		2C	AE 00000G	CF DO 0052E		MOVL	MOUNT FLAGS, ARGLIST+32	1232
		52	30	AE 9E 00534		MOVAB	ARGLIST+36, R2	1234
				00000000G 00 16 00538		JSB	NSASARGLST IMGNAM	
		3C	AE 00040005	8F DO 0053E		MOVL	#262149, ARGLIST+48	1236
		5F	8F 00A4	CE 91 00546		CMPB	FULLNAM, #95	1237
				04 12 0054C		BNEQ	42\$	
				00FC CE D6 0054E		INCL	ITEM_LIST+60	1239
		40	AE 00FC	CE DO 00552	42\$:	MOVL	ITEM_LIST+60, ARGLIST+52	1240
		44	AE 00A4	CE 9E 00558		MOVAB	FULLNAM, ARGLIST+56	1241
		48	AE 00040006	8F DO 0055E		MOVL	#262150, ARGLIST+60	1243
		4C	AE F8	AD 3C 00566		MOVZWL	NAME DESC, ARGLIST+64	1244
		50	AE FEF8	CD 9E 00568		MOVAB	LOG BUFFER, ARGLIST+68	1245
		54	AE 00040007	8F DO 00571		MOVL	#262151, ARGLIST+72	1247
		52	08	AC DO 00579		MOVL	VCB, R2	1249
				14 A2 9F 0057D		PUSHAB	20(R2)	
				OC DD 00580		PUSHL	#12	
0000V	CF	02	FB	00582		CALLS	#2, LABEL LENGTH	
58	AE	50	DO	00587		MOVL	R0, ARGLIST+76	
5C	AE	14	A2 9E 0058B			MOVAB	20(R2), ARGLIST+80	1250
2B		3B	A3 E8 00590			BLBS	59(R3), 43\$	1259
			0E A2 B5 00594			TSTW	14(R2)	1260
			26 13 00597			BEQL	43\$	
0C	AE	03 C0 00599				ADDL2	#3, ARGLIST	1263
		15 AE 96 0059D				INC B	ARGLIST+9	1264
60	AE 00040008	8F DO 005A0				MOVL	#262152, ARGLIST+84	1265
59	20	A2 DO 005A8				MOVL	32(R2), RVT	1266
	0C	A9 9F 005AC				PUSHAB	12(RVT)	1268
		OC DD 005AF				PUSHL	#12	
0000V	CF	02 FB 005B1				CALLS	#2, LABEL LENGTH	
64	AE	50 DO 005B6				MOVL	R0, ARGLIST+88	
68	AE	OC A9 9E 005BA				MOVAB	12(RVT), ARGLIST+92	1269
00000000G	00	OC AE FA 005BF	43\$:	04 005C7		CALLG	ARGLIST, NSASEVENT_AUDIT	1272
						RET		1276

; Routine Size: 1480 bytes, Routine Base: \$CODE\$ + 0015

```
: 749 1277 1 ROUTINE LABEL_LENGTH (STR_LENGTH, STR_TEXT) =
: 750 1278 1
: 751 1279 1 ++
: 752 1280 1
: 753 1281 1 FUNCTIONAL DESCRIPTION:
: 754 1282 1
: 755 1283 1 This routine will return the length of a given string.
: 756 1284 1 Trailing blanks at the end of the string are not counted
: 757 1285 1 as part of the string.
: 758 1286 1
: 759 1287 1 NOTE THAT NO VOLUME MAY HAVE A VOLUME LABEL WITH TRAILING BLANKS.
: 760 1288 1
: 761 1289 1
: 762 1290 1 CALLING SEQUENCE:
: 763 1291 1 LABEL_LENGTH (ARG1, ARG2)
: 764 1292 1
: 765 1293 1 INPUT PARAMETERS:
: 766 1294 1 ARG1: Input string length
: 767 1295 1 ARG2: Input string address
: 768 1296 1
: 769 1297 1 IMPLICIT INPUTS:
: 770 1298 1 NONE
: 771 1299 1
: 772 1300 1 OUTPUT PARAMETERS:
: 773 1301 1 NONE
: 774 1302 1
: 775 1303 1 IMPLICIT OUTPUTS:
: 776 1304 1 NONE
: 777 1305 1
: 778 1306 1 ROUTINE VALUE:
: 779 1307 1 NONE
: 780 1308 1
: 781 1309 1 SIDE EFFECTS:
: 782 1310 1 NONE
: 783 1311 1
: 784 1312 1 !--
: 785 1313 1
: 786 1314 2 BEGIN
: 787 1315 2
: 788 1316 2 MAP
: 789 1317 2 STR_TEXT : REF VECTOR [,BYTE]; ! Input string
: 790 1318 2
: 791 1319 2 LOCAL PTR : LONG; ! Pointer to current char.
: 792 1320 2
: 793 1321 2 ! Starting at the end of the string, decrement the string length
: 794 1322 2 until a nonblank character is found, or the beginning of the string
: 795 1323 2 is encountered.
: 796 1324 2
: 797 1325 2
: 798 1326 2
: 799 1327 2 PTR = .STR_LENGTH;
: 800 1328 2 WHILE (.PTR GTR 0) AND (.STR_TEXT [.PTR-1] EQL %ASCII' ') DO
: 801 1329 2 PTR = .PTR - 1;
: 802 1330 2
: 803 1331 3 RETURN (.PTR)
: 804 1332 1 END;
```

0000 00000 LABEL_LENGTH:											
									WORD	Save nothing	1277
	51	04	AC	D0	00002	1\$:	MOVL	STR_LENGTH, PTR	1327		
50	51	08	AC	C1	00008		BLEQ	2\$	1328		
	20	FF	A0	91	0000D		ADDL3	STR_TEXT, PTR, R0			
			04	12	00011		CMPB	-1(R0), #32			
			51	D7	00013		BNEQ	2\$	1329		
			EF	11	00015		DECL	PTR			
	50		51	D0	00017	2\$:	BRB	1\$	1331		
			04	0001A			MOVL	PTR, R0			
							RET		1332		

: Routine Size: 27 bytes, Routine Base: \$CODE\$ + 05DD

805	1333	1
806	1334	1 END
807	1335	0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	1528	NOVEC,NOWRT, RD ; EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$SPLIT\$	132	NOVEC,NOWRT, RD ; NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Symbols -----	Pages	Processing		
	Total	Loaded	Percent	Mapped	Time
\$_\$255\$DUA2B:[SYSLIB]LIB.L32;1	18619	94	0	1000	00:01.9

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:\$MAKLOG/OBJ=OBJ\$:\$MAKLOG MSRC\$:\$MAKLOG/UPDATE=(ENH\$:\$MAKLOG)

: Size: 1528 code + 132 data bytes
: Run Time: 00:33.7

MAKLOG
V04-000

J 11
16-Sep-1984 01:16:19 VAX-11 Bliss-32 V4.0-742

Page 24

: Elapsed Time: 01:07.0
: Lines/CPU Min: 2376
: Lexemes/CPU-Min: 26826
: Memory Used: 345 pages
: Compilation Complete

0244 AH-BT13A-SE
VAX/VMS V4.0

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